QC/YPD/2020-21/KL-CB3A

Date: 09-03-2021

TEST REPORT ON CEMENT CONCRETE CUBES:

: Testing of Concrete Cubes (for 28days Compressive Strength).
ject*: Improvements to Roads and Drains at Dwarakanagara Surrounding area in Ward No: 05 (Jakkur) Byatarayanapura Sub-Division.)
: Material testing/PMC/20-21,
ort Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
ne of the Agency/Contractor*: K.R Santosh Kumar, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{20}

ABLE 1.1:

	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
	001	09-02-21	09-03-21	28	22500	510	22.67	22.37
	002	"	"	"	"	495	22.00	
	003	"	"	"	"	505	22.44	

he result of the materials tested meets the standards and hence can be used for the work.
ample Collected Site : Balaji Enclave, 3rd Cross Road, RHS From 1st Main Rd

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

NEWZEN CONSULTANT Bangalore

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
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NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE

NCYPD2020-21/KL-CR8A

TEST REPORT ON CEMENT CONCRETE CUBES: Date: 16-03-2021

Testing of Concrete Cubes (for 28days Compressive Strength).
ect*: Improvements to Roads and Drains at Dwarakanagara Surrounding area in Ward No: 05
(Jakkur) Byatarayanapura Sub-Division.)
Material testing/PMC/20-21,
rt Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
e of the Agency/Contractor*: K.R Santosh Kumar, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

mensions of Specimen : 150 X 150 X 150mm
ade of Concrete* : M_{20}

LE 1.1:

Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
001	16-02-21	16-03-21	28	22500	515	22.89	**22.52**
002	"	"	"	"	505	22.44	
003	"	"	"	"	500	22.22	

result of the materials tested meets the standards and hence can be used for the work.
le Collected Site : Balaji Enclave, 1st Cross Road, LHS From 2nd Main Rd

Page No. 1/1,

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NEW TECHNOLOGIES TO INNOVATE

PD/2020-21/KL-CB5A

Date: 16-03-2021

T REPORT ON CEMENT CONCRETE CUBES:

ing of Concrete Cubes (for 28days Compressive Strength).
Improvements to Roads and Drains at Dwarakanagara Surrounding area in Ward No: 05 (Jakkur) Byatarayanapura Sub-Division.)
rial testing/PMC/20-21,
quired for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
e Agency/Contractor*: K.R Santosh Kumar, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

ns of Specimen : 150 X 150 X 150mm

Concrete* : M_{20}

on/ tion*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
	16-02-21	16-03-21	28	22500	515	22.89	22.52
	"	"	"	"	505	22.44	
	"	"	"	"	500	22.22	

the materials tested meets the standards and hence can be used for the work.
cted Site : Balaji Enclave, 1st Cross Road, LHS From 2nd Main Rd

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Date: 19.03.2021

TEST REPORT ON CEMENT CONCRETE CUBES

Name of Work: Testing of Concrete Cubes (for 28days Compressive Strength)
Project: Improvements to Roads and Drains at Doorakanagara Surrounding area in Ward No: 25 ((Jakkur) Byatarayanapura Sub-Division.)
Name of Material testing: PMC/20-21.
Report Required by: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: K.R Santosh Kumar, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M20

Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	CS Area in mm^2	Maximum Load in KN	Compressive Strength (N/mm^2)	Avg. Value
001	18-02-21	18-03-21	28	22500	500	22.22	22.00
002	"	"	"	"	495	22.00	
003	"	"	"	"	490	21.78	

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Balaji Enclave, 2nd Main Road, LHS From End

Page No. 1/1.

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NEW TECHNOLOGIES TO INNOVATE

/QC/YPD/2020-21/KL-CB8A

Date: 22-03-2021

TEST REPORT ON CEMENT CONCRETE CUBES:

: Testing of Concrete Cubes (for 28days Compressive Strength).
ject*: Improvements to Roads and Drains at Dwarakanagara Surrounding area in Ward No: 05
(Jakkur) Byatarayanapura Sub-Division.}
Material testing/PMC/20-21,
rt Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
of the Agency/Contractor*: K.R Santosh Kumar, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

ensions of Specimen : 150 X 150 X 150mm

le of Concrete* : M_{20}

E 1.1:

ocation/ tification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
001	22-02-21	22-03-21	28	22500	510	22.67	22.44
002	"	"	"	"	505	22.44	
003	"	"	"	"	500	22.22	

lt of the materials tested meets the standards and hence can be used for the work.
ollected Site : Shivapura, 2nd Cross Road, RHS From Main Rd

Page No. 1/1,

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE

020-21/KL-GSB1

Date: 02-06-2021

TEST REPORT ON GRANULAR SUBBASE MIX
(GRADATION TEST)

ct tests on GSB (Grade-V) mix.
ovements to Roads and Drains at Dwarakanagara Surrounding area in Ward No: 05
kur) Byatarayanapura Sub-Division.}
esting/PMC/20-21,
d for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
gency/Contractor*: K.R Santosh Kumar, Bangalore.

TEST RESULTS

Test:

Size m	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
00	100.00	100
00	94.35	80-100
50	76.90	55-90
50	54.25	35-65
75	46.10	25-50
36	18.35	10-20
85	7.15	2-10
425	4.05	0-5

the materials tested meets the standards and hence can be used for the work.
ected Site : Dwarakanagara, 1st Main Road (SLV Apartment Rd)

Page No. 1/2,

Asst. Executive Engineer
Project Division
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Date: 02-06-2021

TABLE 1.2

Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)- 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
Water absorption, %	0.42 %	Not more than 2.0 %
Liquid Limit, %	18.34	Not more than 25.0 %
Plasticity Index, %	NP	Not more than 6.0 %
Moisture Content, %	6.56	----------
Aggregate Impact Value, %	28.74	Not more than 40.00 %

e result of the materials tested meets the standards and hence can be used for the work.
mple Collected Site : Dwarakanagara, 1st Main Road (SLV Apartment Rd)

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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NCQC/VPD/2020-21/KL- GSB2

Date: 05-06-2021

TEST REPORT ON GRANULAR SUBBASE MIX
(GRADATION TEST)

Sub: To conduct tests on GSB (Grade-V) mix.
(Project: Improvements to Roads and Drains at Dwarakanagara Surrounding area in Ward No: 05 (Jakkur) Byatarayanapura Sub-Division.)
Ref: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: K.R Santosh Kumar, Bangalore.

TEST RESULTS

1. Gradation Test:
TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
75.00	100.00	100
53.00	98.30	80-100
26.50	87.95	55-90
9.50	51.40	35-65
4.75	46.30	25-50
2.36	15.85	10-20
0.85	6.05	2-10
0.425	4.75	0-5

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Dwarakanagara, 1st Cross Road

Asst. Executive Engineer
Project Division
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BBMP, Bangalore - 92

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Date: 05-06-2021

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
	Water absorption, %	**0.42 %**	Not more than 2.0 %
	Liquid Limit, %	**18.911**	Not more than 25.0 %
	Plasticity Index, %	**NP**	Not more than 6.0 %
	Moisture Content, %	**6.24**	----------
	Aggregate Impact Value, %	**28.81**	Not more than 40.00 %

he result of the materials tested meets the standards and hence can be used for the work.
ample Collected Site : Dwarakanagara, 1st Cross Road

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Yelahanka Zone
BBMP, Bangalore - 92

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Date: 08-06-2021

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
	Aggregate Impact Value	**27.84%**	Not more than 30.00 %
	Combined Flakiness and Elongation index, %	**28.56%**	Not more than 35.0 %
	Water absorption, %	**0.41 %**	Not more than 2.0 %
	Plasticity Index, %	**NP**	Not more than 6.0 %

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Dwarakanagara, 1st Main Road (SLV Apartment Rd)

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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NEW TECHNOLOGIES TO INNOVATE

NC/QC/YPD/2020-21/KL- WMM2

Date: 11-06-2021

TEST REPORT ON WET MIX MACADAM MIX
(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
(Project)*: Improvements to Roads and Drains at Dwarakanagara Surrounding area in Ward No: 05 (Jakkur) Byatarayanapura Sub-Division.;
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: K.R Santosh Kumar, Bangalore.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	100.00	100
45.00	97.35	95-100
26.50	—	-
22.40	72.15	60-80
11.20	54.10	40-60
4.75	32.45	25-40
2.36	25.60	15-30
0.600	19.05	8-22
0.075	3.20	0-5

e result of the materials tested meets the standards and hence can be used for the work.
mple Collected Site : Dwarakanagara, 1st Cross Road

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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Date: 11-06-2021

TABLE 1.2

Sl. No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	**27.58%**	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	**28.73%**	Not more than 35.0 %
3.	Water absorption, %	**0.42 %**	Not more than 2.0 %
4.	Plasticity Index, %	**NP**	Not more than 6.0 %

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Dwarakanagara, 1st Cross Road

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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NC/QC/YPD/2020-21/KL- WMM3

Date: 14-06-2021

TEST REPORT ON WET MIX MACADAM MIX (GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Improvements to Roads and Drains at Dwarakanagara Surrounding area in Ward No: 05 (Jakkur) Byatarayanapura Sub-Division.}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: K.R Santosh Kumar, Bangalore.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	**100.00**	100
45.00	**97.40**	95-100
26.50	**---**	-
22.40	**72.15**	60-80
11.20	**54.25**	40-60
4.75	**36.65**	25-40
2.36	**23.80**	15-30
0.600	**17.30**	8-22
0.075	**4.15**	0-5

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Dwarakanagara, 2nd Cross Road

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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TABLE 1.2

Sl. No.	Test conducted	Test Results	Tests Conforms to IS 2386 Part I to IV - 1963 (Reaffirmed on 2002), & Requirements as per IS 383-1970 & MoRT&H Specifications, 5th Revision 2013.
1	Aggregate Impact Value	27.63%	Not more than 30.00 %
2	Combined Flakiness and Elongation Index, %	28.39 %	Not more than 35.0 %
3	Water absorption, %	0.42%	Not more than 2.0 %
4	Plasticity Index, %	NP	Not more than 6.0 %

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Dwarakanagara, 2nd Cross Road

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE

NWZ/CV/PMC/2020-21/KL- WMM4

Date: 17-06-2021

TEST REPORT ON WET MIX MACADAM MIX (GRADATION TEST)

Sub: Gradation test on Wet Mix Macadam (WMM) Mix.
Name of work: Improvements to Roads and Drains at Dwarakanagara Surrounding area in Ward No: 05 (Jakkur) Byatarayanapura Sub-Division.)
Ref: Material testing PMC/20-21,
Work Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: K.R Santosh Kumar, Bangalore.

TEST RESULTS

Gradation Test:
TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	100.00	100
45.00	96.10	95-100
26.50	---	-
22.40	73.35	60-80
11.20	51.80	40-60
4.75	33.55	25-40
2.36	26.30	15-30
0.600	17.90	8-22
0.075	3.15	0-5

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Dwarakanagara, 2nd Main Road

Page No. 1/2,

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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Date: 17-06-2021

TABLE 1.2

Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)- 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
Aggregate Impact Value	26.72%	Not more than 30.00 %
Combined Flakiness and Elongation index, %	28.56%	Not more than 35.0 %
Water absorption, %	0.42 %	Not more than 2.0 %
Plasticity Index, %	NP	Not more than 6.0 %

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Dwarakanagara, 2nd Cross Road

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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NCC/YPD/2020-21/KL-BD1

Date: 28-06-2021

TEST REPORT ON BITUMEN SAMPLE:

Name of Testing of Bitumen sample VG-30 Grade.
Name of the Project*: Improvements to Roads and Drains at Dwarakanagara Surrounding area in Ward No: 05 (Jakkur) Byatarayanapura Sub-Division.}
Work Order/Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: K.R Santosh Kumar, Bangalore.
Technical Reference: Ministry of Road Transport and Highways, V Revision, 2013 and IS 73: 1992.

TABLE 1.1 ;

	Details	Test Results	Requirements as per I.S 73 –1992 Specifications
1.	Penetration at 25^0 C	**52.70^0 C**	Min. 45
2.	Ductility Value at 25^0 C	**108.90 cm**	40
3.	Flash point	**245^0 C**	Minimum 220^0 C
4.	Softening point	**51.40^0 C**	Min. 47

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Dwarakanagara, 2nd Cross Road

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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NEW TECHNOLOGIES TO INNOVATE

...0/2020-21/KL-CD1

Date: 28-06-2021

REPORT ON COARSE AGGREGATE:

...ing of Coarse Aggregate used in Dense Graded Bituminous Macadam.
...improvements to Roads and Drains at Dwarakanagara Surrounding area in Ward No: 05
(Jakkur) Byatarayanapura Sub-Division.}
...ial testing: PMC/20-21,
...quired for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
...ite Agency/Contractor*: K.R Santosh Kumar, Bangalore.

...ills;

Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
Aggregate Impact Value	23.06%	Not more than 27.00 % for DBM
Combined Flakiness and Elongation index, %	26.78%	Not more than 35.0 %
Water absorption, %	0.42%	Not more than 2.0 %
Specific gravity	2.62	------
Soundness	6.86 %	Max. 12 % in Sodium Sulphate

...sult of the materials tested meets the standards and hence can be used for the work.
...Collected Site : Dwarakanagara, 2nd Main Road

Page No. 1/1,

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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NVPD/2020-21/KL-DBM1 Date: 01-07-2021

LREPORT ON BITUMINOUS MIXES :
(BITUMEN EXTRACTION TEST & GRADATION TEST)
To determine the percentage of bitumen and gradation for DBM mix sample.
e" Improvements to Roads and Drains at Dwarakanagara Surrounding area in Ward No: 05
(Jakkur) Byatarayanapura Sub-Division.)
aterial testing PMC/20-21.
Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
of the Agency/Contractor*: K.R Santosh Kumar, Bangalore.

TEST RESULTS

1. Type of Construction : **Dense Graded Bituminous Macadam.**
The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **4.54 %**

Gradation Test
ABLE 1.1

ve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-10 of MORTH Specfications-2013 DBM (Grading - 2)
37.5	100	100
26.5	95.45	90-100
19.0	82.55	71-95
13.20	74.60	56-80
4.75	48.10	38-54
2.36	34.80	28-42
0.300	17.25	7-21
0.075	6.15	2-8

result of the materials tested meets the standards and hence can be used for the work.
ple Collected Site : Dwarakanagara, 2nd Main Road.

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

NEWZEN CONSULTANT Bangalore

NEWZEN CONSULTANT BANGALORE, 19, 10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
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Date: 18-06-2021

ON BITUMEN SAMPLE:

Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore

K R Santosh Kumar, Bangalore

Ministry of Road Transport and Highways, V Revision, 2013 and IS 73: 1992.

Details	Test Results	Requirements as per I.S 73 –1992 Specifications
	52.70° C	Min. 45
	108.90 cm	40
	245° C	Minimum 220° C
	51.40° C	Min. 47

Dwarakanagara, 2nd Cross Road

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